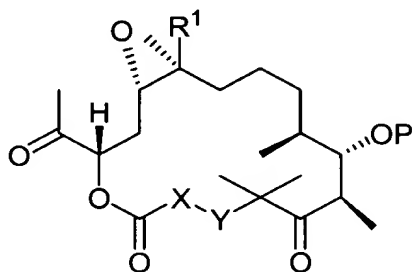


### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

### Listing of Claims

1. (Currently Amended) A compound of the formula:



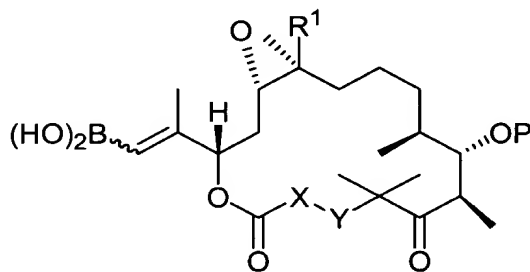
wherein

R<sup>1</sup> is a H atom or a C<sub>1</sub>- to C<sub>8</sub>-alkyl group,

X-Y is a group of the formula ~~-CH<sub>2</sub>CH-OP~~ -CH<sub>2</sub>CH(OP)- or -CH=CH-, and

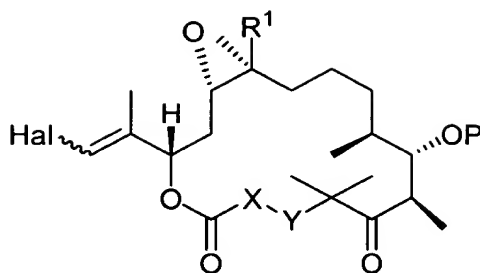
P is a protecting group.

2. (Previously Presented) A compound of the formula:



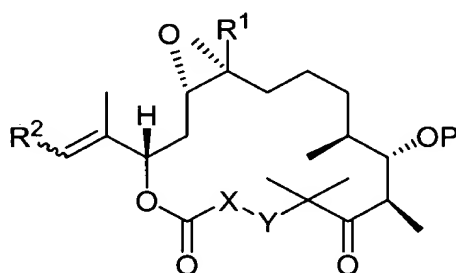
wherein the radicals are as defined in claim 1.

3. (Previously Presented) A compound of formula:



wherein the residues  $R^1$ , X-Y and P are defined as in claim 1, and Hal is a halogen.

4. (Currently Amended) A compound of the formula:

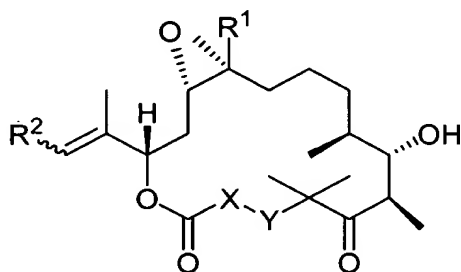


wherein the residue  $R^1$  is a hydrogen atom or a  $C_{1-8}$ -alkyl group, and P is a protective group and X-Y is a group of formula  $-\text{CH}_2\text{CH}(\text{OP})-$ ,  $-\text{CH}_2\text{CH}(\text{OP})-$  or  $\text{CH}=\text{CH}$ , and  $R^2$  is a monocyclic aromatic which can be substituted by a halogen atoms and/or  $\text{OR}^4$ - and/or  $\text{NR}^5\text{R}^6$ - and/or alkyl, alkenyl and/or alkynyl groups in ortho- and/or meta- and/or para-position, or a monocyclic 5- or 6-membered hetero aromatic, which can be ~~provided with~~ optionally substituted with one or several O- and/or N- and/or S-atoms in the ring and/or which can be ~~provided with~~ optionally substituted with  $\text{OR}^4$ - and/or  $\text{NR}^5\text{R}^6$ - and/or alkyl, alkenyl and/or alkynyl groups as substituents, wherein the residues  $R^4$ ,  $R^5$  and  $R^6$  ~~independently are defined as  $R^1$  in claim 1, but are independent of  $R^1$~~  are each independently a hydrogen atom or a  $C_{1-8}$ -alkyl group, wherein

- (i) XY is excluded as group of formula  $-\text{CH}=\text{CH}-$  if  $R^1$  is a hydrogen atom or a  $C_{1-4}$ -alkyl group and  $R^2$  is a monocyclic hetero aromatic having a N atom or a N and a S atom in its ring and a  $C_1$ -alkyl substituent and

(ii) XY is excluded as group of formula  $\text{-CH}_2\text{CH-OP-CH}_2\text{CH(OP)-}$  if  $\text{R}^1$  is a hydrogen atom or a  $\text{C}_{1-4}$ -alkyl group and  $\text{R}^2$  is a monocyclic hetero aromatic having a N atom or a N and a S atom in its ring and a  $\text{C}_1$ -alkyl substituent.

5. (Currently Amended) A compound of the formula:



wherein the residues are as defined in claim 4 and, if X-Y means a group of formula  $\text{-CH}_2\text{-CH-OP-}$ , the protective group P has been removed, wherein

(i) XY is excluded as group of formula  $\text{-CH=CH-}$  if  $\text{R}^1$  is a hydrogen atom or a  $\text{C}_{1-4}$ -alkyl group and  $\text{R}^2$  is a monocyclic hetero aromatic having a N atom and a S atom in its ring and a  $\text{C}_1$ -alkyl substituent and

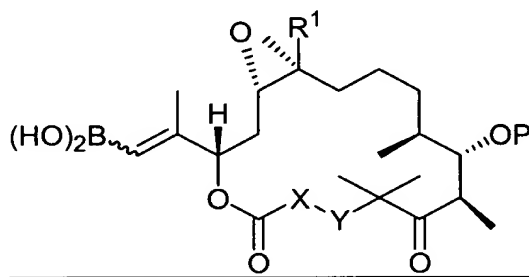
(ii) XY is excluded as group of formula  $\text{-CH}_2\text{CH-OP-CH}_2\text{CH(OP)-}$  if  $\text{R}^1$  is a hydrogen atom or a  $\text{C}_{1-4}$ -alkyl group and  $\text{R}^2$  is a monocyclic hetero aromatic having a N atom or a N atom and a S atom or a N atom and a O atom in its ring and a  $\text{C}_1$ -alkyl substituent.

6. (Currently Amended) A compound ~~Epithilone derivative~~ as in claims 1, 2, 3, 4, 5 or 22 wherein  $\text{R}^1$ ,  $\text{R}^4$ ,  $\text{R}^5$  and  $\text{R}^6$  are a hydrogen atom or a  $\text{C}_{1-6}$ -alkyl group.

7. (Currently Amended) A compound as in claims 4, 5, 6 or 22 wherein the substituents of the monocyclic aromatic and/or hetero aromatic are  $\text{C}_{1-6}$ -alkyl,  $\text{C}_{2-6}$ -alkenyl, and  $\text{C}_{2-6}$ -alkynyl, ~~groups respectively, and fluoro, chloro, bromo or iodo atoms~~ fluorine, chlorine, bromine or iodine.

8. (Currently Amended) A compound as in claims 4, 5, 6, 7 or 22 wherein the monocyclic aromatic ~~and~~ and/or monocyclic hetero aromatic, ~~respectively~~, is ~~provided with~~ optionally substituted with 1, 2 or 3 substituents and the hetero aromatic is ~~provided with~~ optionally substituted with 1, 2 or more hetero atoms in the ring.

9. (Currently Amended) Process for the ~~production~~ preparation of a compound of ~~claim~~ 2, characterised in that a compound of claim 1 is reacted with a compound of the formula  $\text{HC}[\text{B}(\text{OR})_2]_3$ , the radicals being as defined in one of the preceding claims and R being as defined for  $\text{R}^1$  but being independent of  $\text{R}^1$  the formula:



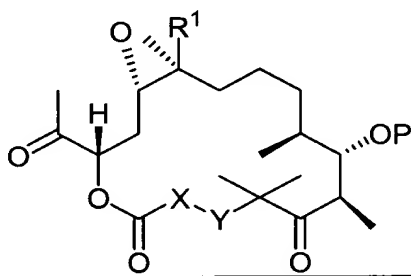
wherein

$\text{R}^1$  is a H atom or a  $\text{C}_1$ - to  $\text{C}_8$ -alkyl group,

X-Y is a group of the formula  $-\text{CH}_2\text{CH}(\text{OP})-$  or  $-\text{CH}=\text{CH}-$ , and

P is a protecting group,

comprising reacting a compound of the formula:



wherein

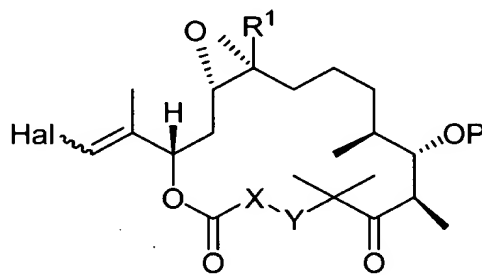
$\text{R}^1$  is a H atom or a  $\text{C}_1$ - to  $\text{C}_8$ -alkyl group,

X-Y is a group of the formula  $-\text{CH}_2\text{CH}(\text{OP})-$  or  $-\text{CH}=\text{CH}-$ , and

P is a protecting group,

with a compound of the formula  $\text{HC}[\text{B}(\text{OR})_2]_3$ , wherein R is a H atom or a  $\text{C}_1$ - to  $\text{C}_8$ -alkyl group.

10. (Currently Amended) Process for the ~~production~~ preparation of a compound of ~~claim~~ 3, characterised in that a compound of claim 2 is reacted with N-iodo or N-bromo-succinimide and the radicals are as defined in one of the preceding claims the formula:



wherein

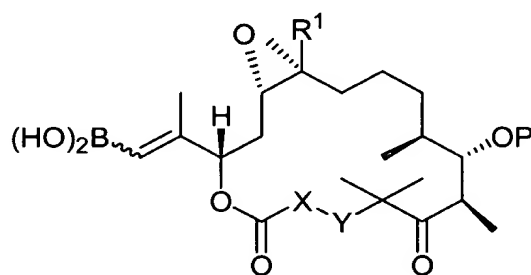
$\text{R}^1$  is a H atom or a  $\text{C}_1$ - to  $\text{C}_8$ -alkyl group,

X-Y is a group of the formula  $-\text{CH}_2\text{CH}(\text{OP})-$  or  $-\text{CH}=\text{CH}-$ ,

P is a protecting group,

and Hal is a halogen,

comprising reacting a compound of the formula:



wherein

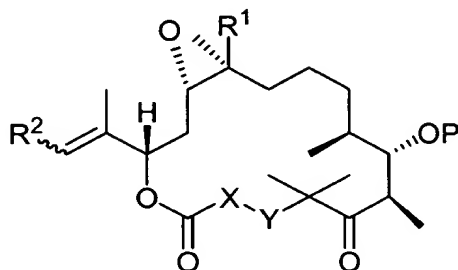
$\text{R}^1$  is a H atom or a  $\text{C}_1$ - to  $\text{C}_8$ -alkyl group,

X-Y is a group of the formula  $-\text{CH}_2\text{CH}(\text{OP})-$  or  $-\text{CH}=\text{CH}-$ , and

P is a protecting group,

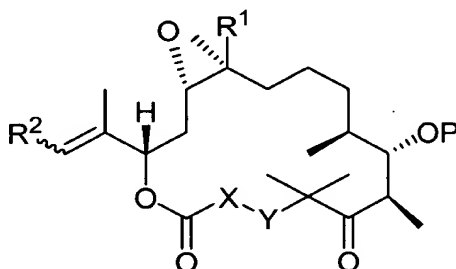
with N-iodo or N-bromo-succinimide.

11. (Currently Amended) Process for the preparation of a compound of formula:



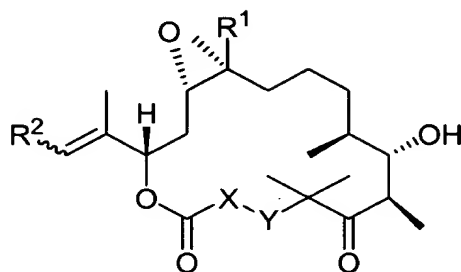
wherein a compound according to claim 2 is reacted by a Suzuki coupling with a compound of formula  $R^2-Z$ , wherein  $R^2$  is a monocyclic aromatic which can be substituted by halogen atoms and/or  $OR^4$  - and/or  $NR^5R^6$  - and/or alkyl, alkenyl and/or alkynyl groups in ortho and/or meta- and/or para-position, or a monocyclic 5- or 6-membered hetero aromatic, which can be ~~provided with~~ optionally substituted with one or several O- and/or N- and/or S-atoms in the ring and/or which can be ~~provided with~~ optionally substituted with  $OR^4$  - and/or  $NR^5R^6$  - and/or alkyl, alkenyl and/or alkynyl groups as substituents and Z can be a halogen atom or a group of formula  $-OSO_2CF_3$ ,  $-CH=CHI$ ,  $-CH=CHOSO_2CF_3$ .

12. (Currently Amended) Process for the preparation of a compound of formula:



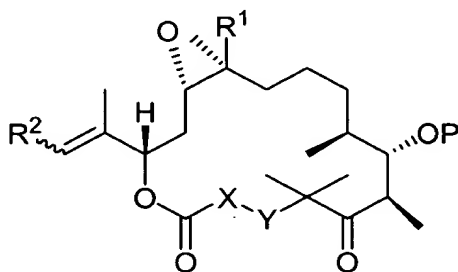
wherein a compound according to claim 3 is reacted by a silent coupling (stille Kupplung) with  $R_2-SNR^3$ , wherein  $R^2$  is a monocyclic aromatic which can be substituted by halogen atoms and/or  $OR^4$  - and/or  $NR^5R^6$  - and/or alkyl, alkenyl and/or alkynyl groups in ortho- and/or meta- and/or para-position, or a monocyclic 5- or 6-membered hetero aromatic, which can be ~~provided with~~ optionally substituted with one or several O- and/or N- and/or S-atoms in the ring and/or which can be ~~provided with~~ optionally substituted with  $OR^4$  - and/or  $NR^5R^6$  - and/or alkyl, alkenyl and/or alkynyl groups as substituents and  $R^3$  is a  $C_{1-6}$ -alkyl group.

13. (Previously Presented) Process for the preparation of a compound of formula:



wherein the protective group is removed from a compound according to claim 4.

14. (Previously Presented) Process for the preparation of a compound of formula:



wherein it comprises the process steps as disclosed in claims 9, 10, 11, 12 or 13.

15-17. (Canceled)

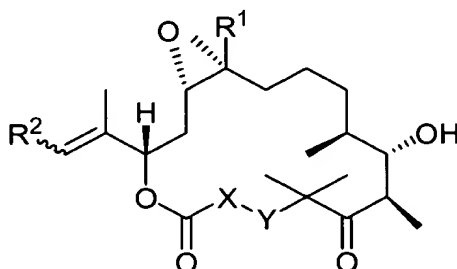
18. (Original) A pharmaceutical composition comprising at least one of the compounds described in claims 1, 2, 3, 4, 5, 6, 7, 8 or 22 and optionally carriers, diluents and/or auxiliary agents.

19. (Original) The pharmaceutical composition according to claim 18, wherein said compound is cytostaticum.

20. (Original) A method of protecting plants in agriculture and/or forest culture and/or horticulture, comprising administering a therapeutically effective amount of at least one compound described in claim 1 and optionally carriers, diluents and/or auxiliary agents.

21. (Canceled)

22. (Currently Amended) A compound of formula:



wherein the residues are defined as in claim 4 and, if X-Y means a group of formula  $\text{--CH}_2\text{CH(OP)--CH}_2\text{CH(OP)--}$ , the protective group P has been removed, wherein

(i) XY is excluded as group of formula  $\text{--CH=CH--}$  if  $\text{R}^1$  is a hydrogen atom or a  $\text{C}_{1-4}$ -alkyl group and  $\text{R}^2$  is a monocyclic hetero aromatic having a N atom and/or a S atom in its ring and a  $\text{C}_1$ -alkyl substituent and

(ii) XY is excluded as group of formula  $\text{--CH}_2\text{CH(OP)--CH}_2\text{CH(OP)--}$  if  $\text{R}^1$  is a hydrogen atom or a  $\text{C}_{1-4}$ -alkyl group and  $\text{R}^2$  is a monocyclic hetero aromatic having a N atom or a N atom and a S atom or a N atom and an O atom in its ring and a  $\text{C}_1$ -alkyl substituent.

23. (Previously Presented) A compound according to claim 22, wherein the substituents of the monocyclic aromatic and/or hetero aromatic are a  $\text{C}_{1-6}$ -alkyl,  $\text{C}_{2-6}$ -alkenyl or  $\text{C}_{2-6}$ -alkynyl group or a halogen atom.

24. (Currently Amended) A compound according to claim 22, wherein the monocyclic aromatic ~~and~~ and/or monocyclic hetero aromatic, ~~respectively, is provided with optionally~~

substituted with 1, 2 or 3 substituents and the hetero aromatic is ~~provided with~~ optionally substituted with 1, 2 or more hetero atoms in the ring.

25. (Currently Amended) A compound according to claim 23, wherein the substituents of the monocyclic aromatic and/or hetero aromatic are C<sub>1-4</sub>-alkyl, C<sub>2-4</sub>-alkenyl ~~and~~ or C<sub>2-4</sub>-alkynyl groups.